DOCUMENT RESUME

ED 025 143 EF 002 676

By- Wakefield, Howard E.

Flexible Educational Facilities. An Annotated Reference List.

Wisconsin Univ., Madison. ERIC Clearinghouse on Educational Facilities.
Spons Agency- Office of Education (DHEW), Washington, D.C.
Pub Date Nov 68
Note- 32p.
EDRS Price MF-$0.25 HC-$1.70
Descriptors- *Annotated Bibliographies, Auditoriums, *Building Design, Building Innovation, Building Materials, Classroom Design, Controlled Environment, *Educational Facilities, Environmental Criteria, Equipment, Facility Case Studies, *Flexible Classrooms, *Flexible Facilities, Movable Partitions, Multipurpose Classrooms, Prefabrication, School Design, School Planning, Space Utilization

These references on flexible educational facilities are abstracted by the ERIC Clearinghouse on Educational Facilities. College material includes an experimental learning center, a college health center, a fine arts center, and university library design. References on schools include secondary school design, flexible high school design, standard junior-senior high school plans, school lighting, domes for schools, demographics factors in school house construction, and school construction systems development project. Acoustics are covered in references on the acoustical environment of school buildings, school noise and carpeting. Other references are--(1) teaching space dividers, (2) two multi-purpose corridors, (3) divisible auditoriums, (4) flexible walls, (5) materials for modernization, (6) educational facilities with new media, and (7) the space stage. (LD)

CLEARINGHOUSE ON
EDUCATIONAL
FACILITIES

ERIC CEF

EDUCATIONAL RESOURCES INFORMATION CENTER • 606 STATE STREET, ROOM 314 • MADISON, WIS. 53703

FLEXIBLE EDUCATIONAL FACILITIES

An Annotated Reference List

EF002676

ED025143

FOREWORD

ERIC/CEF is a clearinghouse of information about sites, buildings, and equipment used for educational purposes; included are the efficiency and effectiveness of activities such as planning, financing, constructing, renovating, maintaining, operating, insuring, utilizing, and evaluating educational facilities.

ERIC/CEF is part of a network of national clearinghouses covering many fields of educational research. The information from all these clearinghouses is reported monthly in RESEARCH IN EDUCATION (RIE), a publication of the U.S. Government Printing Office (annual subscription: Domestic, $21.00, Foreign $26.25).

Many of the documents reported in RIE are available from the ERIC Document Reproduction Service. This service is currently provided by the National Cash Register Company, 4936 Fairmont Avenue, Bethesda, Maryland 20014. Individual documents may be obtained on microfiche at 25¢ for each 60 pages or fewer. Facsimile documents are available at 4¢ per page. Standing orders of all documents related to certain topics are available at 8.4 cents per fiche.

These references are drawn from the documents received and processed to date by ERIC/CEF. They are not represented as a comprehensive list of information on the subject. However, many of the documents are not widely circulated and are therefore useful in expanding existing information. All documents listed herein with an ED number (see symbol page) are available from EDRS. The remaining documents should be sought through the indicated publisher or distributor (the institution source or the information provided at the end of the abstract).

ERIC/CEF invites you to submit documents which are related to the activities decribed in the first paragraph above.

Clearinghouse Accession No.

ERIC Document No. (Available from EDRS)

Clearinghouse Information Code

Title

Author(s)

Institution Source

Date Published

Report No. or Journal Citation

Pagination

EF 001 080 ED 016 359 CERS 2

THE INSTRUCTIONAL MATERIALS CENTER
BY- KLOSTER, ALEXANDER J.
MICHIGAN DEPARTMENT OF EDUCATION, LANSING
PUBLISHED- 65
IN- BULLETIN NO. 369
071 PAGES

DESCRIPTORS- *AUDIOVISUAL AIDS, *INSTRUCTIONAL MATERIALS, *INSTRUCTIONAL MATERIALS CENTERS, *LIBRARIES, CARRELS, INDIVIDUAL STUDY, STUDY FACILITIES

Index Terms (Major terms are preceded by an asterisk)

Abstract

THIS BULLETIN PRESENTS RECOMMENDATIONS WITH REGARD TO PROGRAM, PERSONNEL, AND FACILITIES FOR AN INSTRUCTIONAL MATERIALS ORGANIZATION AND LAYOUTS FOR AN INSTRUCTIONAL MATERIALS CENTER. CASE STUDIES AND EXAMPLES ARE PROVIDED FOR MAKING THE MAXIMUM POSSIBLE USAGE OF THE CENTER WITHIN BOTH THE SCHOOL AND THE COMMUNITY. (BD)

ANNOTATED REFERENCES

ERIC/CEF DOCUMENT NO. EF000048 ED 014 198 DISPOSITION-EDC- 1

EXPERIMENTAL LEARNING CENTER

BY- GREER, JOHN T.
ARIZONA UNIVERSITY, TUCSON, COLLEGE OF EDUCATION

014 PAGES

DESCRIPTORS- *BUILDING INNOVATION, *CLASSROOM RESEARCH, *FLEXIBLE CLASSROOMS, CLASSROOM ENVIRONMENT, TEACHER EDUCATION

A RESEARCH AND DEMONSTRATION CENTER HAS BEEN BUILT AT THE UNIVERSITY OF ARIZONA TO (1) AID IN EDUCATIONAL RESEARCH, (2) DEMONSTRATE THE RELATIONSHIP BETWEEN EDUCATIONAL THEORY AND PRACTICE, (3) SERVE AS A MODEL FOR NEW IDEAS IN SCHOOL CONSTRUCTION AND EQUIPMENT, AND (4) PROVIDE AN OPPORTUNITY FOR STUDENT TEACHERS TO OBSERVE TEACHER AND STUDENT BEHAVIOR. USING EASILY MOVED WALL AND CEILING UNITS, THE SEVENTY-FIVE FOOT SQUARE AREA IS EASILY ARRANGED TO PROVIDE A VARIETY OF EDUCATIONAL ENVIRONMENTS. THE EQUIPMENT USED, (FURNITURE, AUDIO-VISUAL AIDS, ETC.) IS SIMILAR TO THAT FOUND IN TYPICAL SCHOOLS. (JT)

ERIC/CEF DOCUMENT NO. EF000069 DISPOSITION-EDC- 1

A COLLEGE HEALTH CENTER

BY- BARD, BERNARD
EDUCATIONAL FACILITIES LABORATORIES INC., NEW YORK, N. Y.

PUBLISHED- 63
IN- CASE STUDIES OF EDUCATIONAL FACILITIES, NO. 6

35 PAGES

DESCRIPTORS- *BUILDING INNOVATION, *COLLEGE BUILDINGS, *DESIGN NEEDS, *FLEXIBLE FACILITIES, *HEALTH FACILITIES, BUILDING DESIGN, CLINICS, COLLEGE PLANNING, CONSTRUCTION COSTS, HEALTH NEEDS, HEALTH SERVICES, INTERIOR SPACE, STUDY FACILITIES

THIS REPORT CONSIDERS PROBLEMS AND SOLUTICNS RELATED TO THE DESIGN AND ESTABLISHMENT OF COLLEGE HEALTH FACILITIES. THIS INCLUDES THE RESULTS OF A STUDY INVOLVING COLORADO, KNOX, AND WITTENBERG COLLEGES IN WHICH PERSONAL VISITS AND EXPERT TESTIMONY CONCLUDED THAT THE HEALTH SERVICES OF SMALL COLLEGES IN THE CENTRAL AND WESTERN STATES WERE SERIOUSLY INADEQUATE. A PROTOTYPE SOLUTION WAS DEVELOPED BY THE ARCHITECTURAL FIRM, CAUDILL, ROWLETT, AND SCOTT OF HOUSTON, TO MEET THE NEEDS OF SMALL INDEPENDENT LIBERAL ARTS COLLEGES. SPECIFIC CONSIDERATIONS INCLUDED (1) INTERNAL EXPANSION AND FLEXIBILITY, (2) STUDY AND RECREATIONAL FACILITIES, AND (3) SUPERVISION AND SPACE RELATICNSHIPS. THIS SOLUTION CONSISTED OF A CIRCULAR BUILDING, WITH PATIENT ROOMS ON THE PERIMETER AND A RAISED CENTRAL NURSING STATION, WITH AUXILIARY WAITING AND TREATMENT ROOMS AND AN ATTACHED NURSES RESIDENCE. AN IMPORTANT FEATURE WAS THE PROVISION CF STUDY SPACE WHICH COULD BE REPLACED WITH EMERGENCY BEDS. THE PROTOTYPE IS INTENDED AS A LOW COST COMBINATION CLINIC AND INFIRMARY. SPECIFICATIONS, LAYOUTS, AND ELEVATIONS ARE GIVEN WITH THE SUPPORTING DESIGN ANALYSIS. THIS DOCUMENT IS AVAILABLE FROM THE EDUCATIONAL FACILITIES LABORATORIES, 477 MADISON AVENUE, NEW YORK 22, NEW YORK. (MM)

ERIC/CEF DOCUMENT NO. EF000094 DISPOSITION-EDC- 1

ACOUSTICAL ENVIRONMENT OF SCHOOL BUILDINGS

BY- FITZROY, CARIEL AND REID, JOHN LYON
EDUCATIONAL FACILITIES LABORATORIES, INC., NEW YORK, N. Y.

PUBLISHED- 63
IN- TECHNICAL REPORT I

128 PAGES

DESCRIPTORS- *ACOUSTICAL ENVIRONMENT, *EDUCATIONAL ENVIRONMENT, *ENVIRONMENTAL CRITERIA, *PHYSICAL ENVIRONMENT, *PERFORMANCE CRITERIA, CLASSROOM RESEARCH, EDUCATIONAL SPECIFICATIONS, ENVIRONMENTAL RESEARCH, EXPERIMENTAL SCHOOLS, FLEXIBLE CLASSROOMS, MULTIPURPOSE CLASSROOMS, RESEARCH, SCHOOL DESIGN, SCHOOL PLANNING

A FIELD STUDY WAS MADE OF THE ACOUSTICAL ENVIRONMENT OF SCHOOLS DESIGNED FOR INCREASED FLEXIBILITY TO MEET THE SPATIAL REQUIREMENTS OF NEW TEACHING METHODS. THE OBJECT OF THE STUDY WAS TO DEFINE ALL THE CRITERIA FOR THE ACOUSTICAL DESIGN OF THIS TYPE OF CLASSROOM INCLUDING THE DETERMINATION OF--(1) MINIMUM ACOUSTICAL SEPARATION REQUIRED FOR EFFECTIVE GROUP AND INDIVIDUAL WORK, (2) TOLERABLE SOUND LEVELS, AND (3) OBJECTIONAL TYPES OF SOUNDS. THE RESULTING DATA WERE INTENDED AS A GUIDE FOR ARCHITECTS, ENGINEERS, ACOUSTICAL CONSULTANTS, AND EDUCATORS. QUESTIONNAIRES DEALING WITH THE AURAL ENVIRONMENT OF THEIR SCHOOLS WERE SENT TO TEACHERS IN THIRTY-SEVEN SCHOOLS IN ALL PARTS OF THE COUNTRY. TEAMS OF ACOUSTICAL CONSULTANTS THEN ANALYZED EACH SCHOOL TO ACCURATELY DETERMINE NOISE REDUCTION, REVERBERATION, SPEECH INTERFERENCE LEVEL AND ARTICULATION INDEX. THE COLLECTED DATA, DISCUSSION, AND CONCLUSIONS ARE PRESENTED FOR EACH SCHOOL STUDIED. THIS DOCUMENT IS AVAILABLE FROM THE EDUCATIONAL FACILITIES LABORATORIES, 477 MADISON AVENUE, NEW YORK 22, NEW YORK. (JT)

ERIC/CEF DOCUMENT NO. EF000122 DISPOSITION-CERS 2

EDUCATIONAL FACILITIES WITH NEW MEDIA

BY- GREEN, ALAN C.
NATIONAL EDUCATION ASSOCIATION, WASHINGTON, D.C., DEPARTMENT OF AUDIVISUAL INSTRUCTION

PUBLISHED- 66

237 PAGES

DESCRIPTORS- *AUDIOVISUAL AIDS, *BUILDING DESIGN, *EDUCATIONAL PROGRAMS, *FACILITY UTILIZATION STUDY, *PLANNING, ACOUSTICAL ENVIRONMENT, CLASSROOM FURNITURE, CURRICULUM PLANNING, EDUCATION EQUIPMENT, EDUCATIONAL TELEVISION, ENVIRONMENTAL CRITERIA, FLEXIBLE FACILITIES, FURNITURE ARRANGEMENT, LIGHTING, PHYSICAL ENVIRONMENT, PROGRAM PLANNING, PROJECTION EQUIPMENT, SCHEDULING

THIS STUDY REPORTS THE PLANNING NECESSARY TO IMPLEMENT NEW MEDIA INTO AN EDUCATIONAL PROGRAM INCLUDING GUIDES FOR POLICY MAKERS, DESIGN PROFESSIONS AND TECHNICAL SPECIALISTS. THE IMPLEMENTATIONS OCCUR IN THREE AREAS--(1) ADMINISTRATION AND STAFF, (2) SCHOOL ARCHITECTURE, AND (3) CLASSROOM EQUIPMENT. ADMINISTRATIVE PLANNING IS CONCERNED WITH SCHEDULING IN RESPECT TO GROUPING, TIME, AND CURRICULA FOR EQUIPMENT AND COMPATIBLE SPACE, INCORPORATING MEDIA AS AN INTEGRAL PART OF CURRICULUM, ACCOUNTING FOR CONTINUAL UPDATING OF HARDWARE AND EQUIPMENT, SURVEYING TO DETERMINE PRESENT AND FUTURE SCHOOL AUDIOVISUAL NEEDS, COORDINATING EDUCATIONAL SPECIFICATIONS WITH AN ARCHITECTURAL PROGRAM AND GENERALLY PROVIDING ENCOURAGEMENT TO THE STAFF TO USE THE EQUIPMENT AVAILABLE. THE STAFF IS ENCOURAGED TO USE THE MEDIA AS AN ADJUNCT FOR INCREASING THEIR EFFICIENCY AND EFFECTIVENESS IN THE CLASSROOM. TYPES OF FACILITIES WITH MEDIA TO BE CONSIDERED BY THE DESIGN PROFESSIONS ARE--(1) INDEPENDENT STUDY, (2) SMALL-GROUP, (3) MEDIUM-GROUP, (4) LARGE-GROUP, (5) FLEXIBLE-GROUP, (6) RENOVATED CLASSROOMS, (7) RESOURCE FACILITES, (8) PRODUCTION-SUPPORT FACILITIES AND (9) NEW BUILDING TYPES. CLASSROOMS NEED TO BE PROVIDED WITH THE BASIC AUDIOVISUAL EQUIPMENT TO WHICH COMPONENTS CAN BE ADDED. CLASSROOM FURNITURE MUST BE APPROPRIATE FOR THE TYPE OF AUDIOVISUAL EQUIPMENT USED AND BE PLACED RELATIVE TO THE VIEWING SURFACE. HARDWARE, I. E., PROJECTORS, SCREENS AND SPEAKERS MUST BE COMPATABLE WITH THE ENVIRONMENTAL FACTORS OF LIGHTING AND ACOUSTICS. THIS DOCUMENT IS ALSO AVAILABLE FROM THE NATIONAL EDUCATION ASSOCIATION, 1201 SIXTEENTH STREET, N.W., WASHINGTON, D.C. 20036, STOCK NO. 071-02302, SINGLE COPY PRICE $4.50. DISCOUNTS--10 PERCENT ON 2-9 COPIES - 20 PERCENT ON 10 OR MORE COPIES. (GM)

ERIC/CEF DOCUMENT NO. EF000175 DISPOSITION-CERS 2

SCSD. AN INTERIM REPORT

EDUCATIONAL FACILITIES LABORATORIES, INC., NEW YORK, N. Y.

PUBLISHED- 65

038 PAGES

DESCRIPTORS- *COMPONENT SYSTEM, *BUILDING COMPONENTS, *SYSTEM COMPONENTS, LEXIBILITY , MOVABLE PARTITIONS

THE PAST TWO DECADES HAVE BEEN WITNESS TO BROAD CHANGE IN TEACHING TECHNIQUE AND PURPOSE. SCHOOL BUILDING NEEDS HAVE BEEN COMPOUNDED BY MUSHROOMING PUPIL POPULATIONS AND INCREASING CONSTRUCTION COSTS. THE E. F. L. THROUGH ITS SCHOOL CONSTRUCTION SYSTEMS DEVELOPMENT STUDY HAS BEEN TRYING TO RESOLVE THE SCHOOL PLANT ENIGMA OF CHANGING CURRICULUM AND TECHNIQUE NEEDS WHILE DOVETAILING RISING COSTS AND PUPIL ENROLLMENTS. INTRODUCING THE BRITISH COMPONENT APPROACH OF STANDARDIZED SIZES AND PERFORMANCE SPECIFICATIONS DEVELOPED BY SCHOOL AUTHORITIES, LOWER BUILDING PRICES HAVE BEEN ACHIEVED IN SOME CALIFORNIA STUDY SCHOOLS BECAUSE OF MANUFACTURING VOLUME. VOLUME PERMITS DEVELOPMENT OF PRODUCTS SPECIFICALLY FOR SCHOOLS AT A COST FAVORABLE TO MANUFACTURER, TAXPAYER, AND SCHOOL USERS. CRITICAL TO BUILDING FLEXIBILITY WAS THE CEILING SERVICE SANDWICH ACCOMMODATING HEAT, LIGHT, AND VENTILATION SYSTEMS, THEMSELVES DEMOUNTABLE AND MOVEABLE. AS THESE VITAL SYSTEMS DID NOT PROTRUDE FROM THE CEILING, FOLDING PARTITIONS COULD BE DEMOUNTED AND RELOCATED WITHIN THE BUILDING IN A SHORT SPAN OF TIME. INSTRUCTIONAL AREAS COULD BE EASILY VARIED AS NEEDS CHANGED.

ERIC/CEF DOCUMENT NO. EF000411 ED 014 850 DISPOSITION-EDC- 1

ENVIRONMENT FOR LEARNING (A RESEARCH STUDY IN SECONDARY SCHOOL DESIGN)

GOLEMON AND ROLFE, ARCHITECTS ENGINEERS HOUSTON, TEXAS

PUBLISHED-FEB60
IN- FORM NO. AC 489

023 PAGES

DESCRIPTORS- *BUILDING DESIGN, *CONTROLLED ENVIRONMENT, *FLEXIBLE FACILITIES, *SPACE RELATIONSHIPS, *WINDOWLESS SPACE, BUILDING INNOVATION, BUILDING OPERATION, COMPARATIVE ANALYSIS, CONSTRUCTION COSTS, DESIGN NEEDS, SECONDARY SCHOOLS

A STUDY OF THE SCHOOL ENVIRONMENT AND THE PREPARATION OF A MODEL DESIGN SOLUTION HAS BEEN CONDUCTED BY AN ARCHITECTURAL FIRM. THE SOLUTION USED DATA FROM AN EXISTING COMPARISON SCHOOL IN THE REDESIGN OF THE EDUCATIONAL FACILITY BASED ON THE INDEPENDENT CONTROL OF THE INTERNAL ENVIRONMENT AND THE ELIMINATION OF CLASSROOM WINDOWS. THIS APPROACH ALLOWED THE REDISTRIBUTION OF SPACE AND FACILITIES WITHIN THE BUILDING PROVIDING A GREATER FLEXIBILITY AND ECONOMIES IN COST, SPACE, AND TRAVEL TIME, AS WELL AS A MORE EFFECTIVE ENVIRONMENTAL CONTROL. THE MODEL SOLUTION HAS COMPARED WITH THE EXISTING SCHOOL IN TERMS OF (1) SITE USE, (2) FLOOR PLAN, (3) CONSTRUCTION COSTS, AND (4) OPERATING COSTS. THE SOLUTION ALSO INCLUDES SPECIFIC CONSIDERATIONS OF (1) ENTRANCES, (2) CORRIDORS, (3) FLEXIBLE CLASSROOMS, AND (4) ENGINEERING FACTORS. (DM)

ERIC/CEF DOCUMENT NO. EF000418 ED 014 852 DISPOSITION-EDC- 1

SCHOOL CONSTRUCTION SYSTEMS DEVELOPMENT PROJECT

BY- BOICE, JOHN AND EHRENKRENTZ, EZRA AND MAC CONNELL, JAMES
NATIONAL COUNCIL ON SCHOOLHOUSE CONSTRUCTION, EAST LANSING, MICHIGAN

PUBLISHED- 65
IN- PROCEEDINGS OF THE FORTY-FIRST ANNUAL MEETING, HOUSTON, TEXAS, OCT. 64

009 PAGES

DESCRIPTORS- *EDUCATIONAL SPECIFICATIONS, *PREFABRICATION, *SCHOOL CONSTRUCTION, *SCHOOL PLANNING, *SPACE UTILIZATION, ACOUSTICAL ENVIRONMENT, BUILDING DESIGN, BUILDING INNOVATION, CURRICULUM PLANNING, FIRE PROTECTION, FLEXIBLE CLASSROOMS, HEATING, ILLUMINATION, INTERIOR SPACE, MOVABLE PARTITIONS, VENTILATION

ONE HUNDRED MANUFACTURERS EXPRESSED INTEREST IN BIDDING FOR A SYSTEM OF SCHOOL CONSTRUCTION CALLED SCSD OR SCHOOL CONSTRUCTION SYSTEMS DEVELOPMENT TO THE FIRST CALIFORNIA COMMISSION ON SCHOOL CONSTRUCTION SYSTEMS. TWENTY-TWO BUILDINGS COMPRISED THE PROJECT. THE OBJECTIVE WAS TO DEVELOP AN INTEGRATED SYSTEM OF STANDARD SCHOOL BUILDING COMPONENTS THAT WAS ADAPTABLE, ECONOMICALLY FEASIBLE, AND TIME-SAVING. THE USE OF STANDARD COMPONENTS TO BUILD NONSTANDARD BUILDINGS WAS A NEW CONCEPT. INDUSTRY DEVELOPED THE SYSTEM ON PERFORMANCE SPECIFICATIONS DEVELOPED BY EFL. HOWEVER, THE COMPONENTS WERE NOT ALWAYS COMPATIBLE. THE PURPOSE WAS TO INPLEMENT EDUCATIONAL DEVELOPMENTS BY GIVING THE EDUCATOR FLEXIBILITY IN THE PLANNING AND UTILIZATION OF SCHOOL BUILDINGS. THIS REQUIRED (1) LONG SPANS TO GENERATE LARGE AREAS OF SPACE, AND (2) ECONOMICALLY MOVABLE PARTITIONS. LIGHTING AND VENTILATING SYSTEMS HAD TO BE DESIGNED SO AS TO FULFILL VARIATION DUE TO FLEXIBLE SPACE ARRANGEMENTS NECESSITATED BY CHANGING CURRICULA. EXAMPLES OF PERFORMANCE SPECIFICATIONS EXPRESSED IN NUMERICAL QUANTITIES ARE GIVEN. THE TOTAL CONCEPT PROVIDES FOR AN INFINITE VARIETY OF BUILDINGS. THE STRUCTURAL-LIGHTING CEILING SYSTEM PROVIDES (1) SOURCE OF ILLUMINATION, (2) FINISHED CEILING OR SOFFIT, (3) CEILING SOUND ABSORPTION, (4) SOUND ATTENUATION BETWEEN ROOMS, (5) FIRE PROTECTION FOR THE STEEL STRUCTURE, (6) SUPPORT FOR DEMOUNTABLE PARTITIONS, AND (7) SUPPLY AND RETURN AIR DEVICES. THE UNIT FOLDS FLAT FOR SHIPPING. THIS SYSTEM IS A STRUCTURAL TECHNIQUE FOR SCHOOL BUILDINGS THAT UTILIZES THE INHERENT STRUCTURAL PROPERTIES OF A STEEL ROOF DECK. IT DOES NOT INCLUDE THE EXTERIOR WALLS. CEILING SYSTEM DIAGRAMS ARE PROVIDED. (RK)

ERIC/CEF DOCUMENT NO. EF000421 ED 014 854 DISPOSITION-EDC- 1

THE DEVELOPMENT OF THE TEACHING SPACE DIVIDER

BY- CAUDILL, WILLIAM W. AND BELLOMY, CLEON C.
CAUDILL, ROWLETT, SCOTT, AND ASSOCIATES ARCHITECTS-ENGINEERS
BRYAN, TEXAS

IN- RESEARCH REPORT, 1

006 PAGES

DESCRIPTORS- *MOVABLE PARTITIONS, *PREFABRICATION, *SPACE DIVIDERS, *TEACHING METHODS, *VERTICAL WORK SURFACES, CHALKBOARDS, CONSTRUCTION COSTS, DISPLAY PANELS, TACKBOARDS

TYPES OF VERTICAL WORK SURFACES AND THE DEVELOPMENT OF A MODEL TEACHING SPACE DIVIDER ARE DISCUSSED IN THIS REPORT. THIS DESIGN IS BASED ON THE EXPRESSED NEED FOR MORE TACKBOARD AND SHELVING SPACE, AND FOR MOVABLE PARTITIONS. THE MODEL PANELS WHICH SERVE DIRECTLY AS PARTITIONS RATHER THAN BEING OVERLAID ON A PLASTERED SURFACE, INCLUDE THE FOLLOWING FUNCTIONS--(1) SERVING AS UNITS TO DIVIDE SPACE, (2) SERVING AS VERTICAL WORK SURFACES, AND (3) FACILITATING EASY INTERIOR CHANGES. FOUR TYPES OF SURFACE, PREFABRICATED ON A FOUR BY EIGHT FOOT MODULE, INCLUDE --(1) CHALKBOARD PANELS, PROVIDING A LARGE-SCALE WRITING AND DRAWING SURFACE, (2) DOWEL PANELS, PROVIDING SHELF AND EASEL SPACE, (3) TACKBOARDS, PROVIDING A FULL WALL AREA DISPLAY SPACE, AND (4) PERFORATED PANELS, PROVIDING AN ACOUSTIC AND VERSATILE HANGING SURFACE. PANELS ARE MOUNTED DIRECTLY ON STUDS AND MAY BE DEMOUNTED AND INTERCHANGED AS NEEDED. THIS SOLUTION IS ECONOMICAL AND SAVES OFTEN WASTED WALL SPACE. (DM)

ERIC/CEF DOCUMENT NO. EF000425 DISPOSITION-CERS 2

AN ANALYSIS OF TWO MULTI-PURPOSE CORRIDOR TYPES

BY- HARRIS, AL AND CAUDILL, WILLIAM W.
CAUDILL, ROWLETT, SCOTT AND ASSOCIATES ARCHITECTS-ENGINEERS
BRYAN, TEXAS

IN- RESEARCH REPORT, 4

006 PAGES

DESCRIPTORS- *CLASSROOMS, *DESIGN, *SCHOOL ARCHITECTURE, *SCHOOL SPACE, *PLANNING, BUILDING DESIGN, ELEMENTARY SCHOOLS, MULTI-PURPOSE CLASSROOMS, SCHOOL DESIGN, SCHOOL PLANNING

THE MULTI-USE CORRIDOR PROVIDES MAXIMUM UTILIZATION OF SPACE THROUGH REDUCED CONSTRUCTION COSTS. ACCORDING TO THE REPORT THE TWO TYPES OF MULTI-USE CORRIDORS, SINGLE-LOADED AND DOUBLE LOADED, ARE EDUCATIONALLY PRACTICAL AND FUNCTIONAL. THE DOUBLE LOADED CORRIDOR MAY BE USED FOR GENERAL SCHOOL ACTIVITIES, THE SINGLE-LOADED CORRIDOR MAY BE USED FOR EXPANDED CLASSROOM ACTIVITIES.

ERIC/CEF DOCUMENT NO. EF000432 DISPOSITION-EDC- 2

DOMES FOR SCHOOLS

BY- NYE, EDWARD F.
CAUDILL, ROWLETT, SCOTT AND ASSOCIATES ARCHITECTS-ENGINEERS
BRYAN, TEXAS

PUBLISHED- 58
IN- RESEARCH REPORT, 11

004 PAGES

DESCRIPTORS- *BUILDING MATERIALS, *CONSTRUCTION (PROCESS), *FLEXIBLE FACILITIES, *SCHOOL DESIGN, *STRUCTURAL BUILDING SYSTEMS, AUDITORIUMS, BUILDING INNOVATION, CLASSROOMS, GYMNASIUMS, SPACE DIVIDERS

THE NEED FOR FLEXIBLE BUILDINGS WITH MOVABLE PARTITIONS AND COLUMN-FREE SPACE, LEADS TO THE POSSIBILITIES OF USING STRUCTURAL MATERIALS IN A FORM WHICH WILL ELIMINATE BENDING, USING THEIR STRENGTH MORE EFFICIENTLY BY KEEPING THE STRESSES IN A SIMPLE TENSION OR COMPRESSION. THIS POINTS DIRECTLY TO THE USE OF SOME KIND OF DOME. THE DEVELOPMENT OF THE DOME IS TRACED THROUGH HISTORY TO THE PRESENT, WITH ACTUAL EXAMPLES OF CURRENTLY DESIGNED--(1) AUDITORIUMS, (2) AIR TERMINALS, (3) FIELD HOUSES, (4) GYMNASIUMS, (5) CHURCHES, (6) COLISEUMS, AND (7) GEODESIC SPACE FRAMES. SPECIFIC DISCUSSION IS GIVEN FOR DOMES USED IN DESIGNING TEACHING SPACE, PARTICULARLY CLASSROOMS, USING SPACE DIVIDERS AND DOME CLUSTERS. THIS IS RELATED TO THE NEED FOR FLUID EDUCATIONAL PROGRESS. PHOTOGRAPHS SHOW CURRENT EXAMPLES OF DOME CONSTRUCTION. (MM)

ERIC/CEF DOCUMENT NO. EF000434 ED 014 860 DISPOSITION-EDC- 1

APPROACH TO A UNIVERSITY LIBRARY DESIGN

BY- KRENITSKY, MICHAEL V.
CAUDILL, ROWLETT, SCOTT AND ASSOCIATES ARCHITECTS-ENGINEERS
BRYAN, TEXAS

PUBLISHED- 58
IN- RESEARCH REPORT, 13

014 PAGES

DESCRIPTORS- *LIBRARY SERVICES, *LIBRARY STANDARDS, *PHYSICAL DESIGN NEEDS, *SPACE UTILIZATION, *UNIVERSITY LIBRARIES, AUDIOVISUAL INSTRUCTION, CONTROLLED ENVIRONMENT, EDUCATIONAL PHILOSOPHY, FLEXIBLE FACILITIES, PLANNING, SPACE RELATIONSHIPS

DISCUSSES THE CONSIDERATIONS INVOLVED IN THE DESIGN OF A UNIVERSITY LIBRARY SHOWING HOW ONE FIRM IN COMPETITION APPROACHED THE PROBLEM ON A PREDETERMINED SITE. CONSIDERATIONS ARE (1) DEFINITION OF THE EDUCATIONAL AIMS AND PHILOSOPHY OF THE INSTITUTION, (2) RELATING THE FUNCTIONS OF TEACHING AND RESEARCH PROGRAMS TO THE LIBRARY, (3) PRESCRIBING THAT FORM FOLLOWS FUNCTION, AND (4) ANALYZING ALL THE ACTIVITIES USING SPACE. THE PROCEDURE IS TO (1) SURVEY THE LITERATURE, (2) DEFINE THE PLACE OF THE LIBRARY IN THE UNIVERSITY, (3) INSPECT NEW LIBRARY FACILITIES, (4) BECOME FAMILIAR WITH SPECIAL SITE PROBLEMS, AND (5) DEVELOP PREMISES FOR PLANNING A UNIVERSITY LIBRARY. THE REPORT PRESENTS IN DETAIL THE CHARACTERISTICS OF THE LIBRARY WHICH ARE ITS FUNCTIONS, CLIENTELE, AND OPERATIONS. EDUCATIONAL EFFICIENCY IS DISCUSSED WITH REGARDS TO (1) OPEN SHELVES, (2) LABORATORY SITUATIONS, (3) AUDIO-VISUAL SERVICES, (4) DIVISIONAL ORGANIZATION OF COLLECTION, (5) GENERAL EDUCATION PROVISIONS, AND (6) FUNCTIONAL BUILDINGS. SITE CONSIDERATIONS AND PREMISES FOR FUNCTIONAL PLANNING ARE DESCRIBED. THEIR SOLUTION CENTERED AROUND (1) THE SERVICE AREA, (2) CONTROLS, (3) STACK AREA, (4) PROVISION FOR UNDERGRADUATES, AND (5) FLEXIBILITY. INCLUDED IS A LIST OF SELECTED REFERENCES ALONG WITH DIAGRAMS, SKETCHES, AND CHARTS. (RK)

ERIC/CEF DOCUMENT NO. EF000440 DISPOSITION-EDC- 1

THE SPACE STAGE, FAD OR FUTURE

BY- DE CHAINE, FABER

PUBLISHED-MAY66
IN- AMERICAN SCHOOL BOARD JOURNAL, MAY 1966

7 PAGES

DESCRIPTORS- *AUDITORIUMS, *EQUIPMENT, *FLEXIBLE FACILITIES, *THEATERS, AUDIOVISUAL INSTRUCTION, CONSTRUCTION COSTS, MUSIC ACTIVITIES, THEATER ARTS

DISSATISFACTION WITH THE PROSCENIUM ARCH THEATRE, THE NEED FOR ECONOMY IN PUBLICLY-FINANCED STRUCTURES, AND THE ADVANTAGES OF INTIMATE THEATRE, HAVE LED TO THE DEVELOPMENT OF THE SPACE STAGE, WHICH PROJECTS INTO THE AUDITORIUM AND IS SURROUNDED ON THREE SIDES BY SEATING. THE SPACE STAGE CONCEPT IS USED IN THIS EXAMPLE TO PROVIDE A PERFORMING ARTS FACILITY IN CONJUNCTION WITH A NEW CAMPUS HIGH SCHOOL. THE SOLUTION CONTAINS A 400 SEAT THEATER WITH TWO 200-SEAT AUDITORIUMS SEPARATED BY MOVABLE PANELS, DESIGNED SO THAT CLASSES COULD BE HELD IN THE TWO SMALLER AUDITORIUMS. DESIGN OF THE SEATING INCLUDES CONSIDERATION OF--(1) AISLE AND SEATING ORIENTATION, (2) CONTROL OF STAGE LIGHTING, (3) VISUAL ANGLES, AND (4) ACOUSTICS. THE TREATMENT OF THE STAGE CONSIDERS--(1) ABSORBANCE, (2) REFLECTION, (3) FLEXIBILITY, AND (4) SPEAKER PLACEMENT. TECHNICAL FACILITIES INCLUDE--(1) A SIDE TRACK SYSTEM FOR SCENERY, (2) ROLLING TOWERS FOR STAGE WORK, AND (3) A WALL SHOP. GRAPHICS INCLUDE PHOTOGRAPHS OF THE THEATRE AND BACKSTAGE AREA, AND DIAGRAMS OF THE PLAN AND ELEVATION. THIS ARTICLE APPEARED IN THE MAY, 1966, ISSUE OF THE AMERICAN SCHOOL BOARD JOURNAL. COPIES MAY BE OBTAINED BY WRITING THE EDITOR, AMERICAN SCHOOL BOARD JOURNAL, BRUCE PUBLISHING CO., 400 N. BROADWAY, MILWAUKEE, WISCONSIN. (MM)

ERIC/CEF DOCUMENT NO. EF000467 ED 015 620 DISPOSITION-EDC- 1

MATERIALS FOR MODERNIZATION

BY- JACKSON, R. GRAHAM
HOUSTON UNIVERSITY, TEXAS

PUBLISHED- 61

007 PAGES

DESCRIPTORS- *BUILDING IMPROVEMENT, *BUILDING MATERIALS, *CEILINGS, *FLOORS, *SPACE DIVIDERS, ACOUSTICAL ENVIRONMENT, BUILDING OBSOLESCENCE, FLEXIBLE FACILITIES, PHYSICAL DESIGN NEEDS, PSYCHOLOGICAL DESIGN NEEDS

CHOICES AND ISSUES IN SELECTING MATERIALS FOR MODERNIZATION OF SCHOOL BUILDIINGS ARE DISCUSSED IN THIS REPORT. BACKGROUND INFORMATION IS INTRODUCED IN TERMS OF REASONS FOR ABANDONMENT, THE CAUSES AND EFFECTS OF SCHOOL BUILDING OBSOLESCENCE, AND PROBLEMS IN THE MODERNIZATION PROCESS. INTERIOR PARTITIONS ARE DISCUSSED IN TERMS OF BUILDING MATERIALS, SURFACE TREATMENT, AND CONSTRUCTION COSTS. CRITERIA FOR FLOORING INCLUDE MATERIALS AND MAINTENANCE, AND FUNCTIONAL PROPERTIES OF MATERIALS. CEILINGS ARE MENTIONED WITH RESPECT TO FINISHING MATERIALS, ACOUSTICS AND REVERBERATION CONTROL, AND INSULATION. GENERAL COMMENTS ARE INCLUDED ON PLANNING FOR MODERNIZATION. (MM)

ERIC/CEF DOCUMENT NO. EF000469 DISPOSITION-CERS 2

HOW TO BUILD A SCHOOL YOUR NEXT SUPERINTENDENT CAN USE

BY- MAFFEO, ALFRED A.

PUBLISHED-MAR64
IN- SCHOOL MANAGEMENT, MARCH 1964

007 PAGES

DESCRIPTORS- *JUNIOR HIGH SCHOOLS, *SCHOOL DESIGN, ADMINISTRATION, BUILDING DESIGN, DESIGN, HOUSE PLAN, LIBRARY, SCHOOL CONSTRUCTION, SCHOOL LIBRARY, MIDDLE SCHOOLS, MOVABLE PARTITIONS

SCHOOL BUILDINGS DESIGNED TO LAST 50 YEARS MUST PROVIDE FOR FLEXIBILITY TO PERMIT FULL USE NO MATTER HOW DRASTICALLY EDUCATIONAL POLICIES CHANGE OR HOW OFTEN SUPERINTENDENTS CHANGE. A JUNIOR HIGH SCHOOL IN NATICK, MASSACHUSETTS HAS BEEN DESIGNED IN SUCH A WAY. A HOUSE PLAN SEPARATED STUDENTS INTO WINGS BUT THE DESIGN PERMITS THE SINGLE BUILDING PLAN. ADMINISTRATIVE OFFICES IN EACH HOUSE CAN EASILY BE CONVERTED TO SEMINAR ROOMS. SEPARATE DINING ROOMS MAKE IT POSSIBLE TO HAVE SMALLER AREAS WHICH ARE MORE USABLE FOR OTHER ACTIVITIES. A CENTRAL LIBRARY IS BUILT SO GROWTH OF SERVICE IS POSSIBLE. SEVERAL CLASSROOMS ARE BUILT SO PARTITIONS CAN BE MOVED FOR TEAM TEACHING. THE AUDITORIUM CAN BE SEPARATED INTO THREE SMALLER LECTURE HALLS. A COMPUTER PROGRAM CALLED GASP FOR GENERALEZED ACADEMIC SIMULATION PROGRAMS WAS USED TO CHECK SPACE UTILIZATION. RESULTS SHOWED AN 850/0 UTILIZATION FACTOR. THE COST OF THIS BUILDING WAS $17.23 PER SQUARE FOOT.

ERIC/CEF DOCUMENT NO. EF000491 DISPOSITION-EDC- 2

SCHOOL LIGHTING

GENERAL ELECTRIC, CLEVELAND, OHIO

PUBLISHED-SEP64

016 PAGES

DESCRIPTORS- *ECONOMICS, *ILLUMINATION LEVELS, *LIGHTING, *SCHOOL ENVIRONMENT, *VISUAL ENVIRONMENT, ATHLETICS, AUDITORIUMS, AUDIOVISUAL AIDS, CLASSROOMS, CORRIDORS, MULTIPURPOSE CLASSROOMS, SAFETY, TELEVISION

THIS REPORT DEALS WITH PLANNING FOR EFFECTIVE LIGHTING IN SCHOOLS. TOPICS DISCUSSED ARE--(1) ECONOMICS, (2) ELECTRICAL SPACE CONDITIONING, (3) DEVELOPING THE VISUAL ENVIRONMENT, (4) BRIGHTNESS RELATIONSHIPS, (5) LEVELS OF ILLUMINATION, (6) IMPROVED LAMPS, (7) QUALITY IN LIGHTING, (8) LUMINARIES AND VISUAL COMFORT, (9) THE VISUAL COMFORT INDEX, AND (10) CAUSES AND REDUCTION OF CEILING REFLECTIONS. SECTIONS ARE ALSO INCLUDED ON LIGHTING IN CLASSROOMS, FOR AUDIOVISUAL AIDS, FOR TELEVISION IN THE CLASSROOM, FOR AUDITORIUMS AND MULTI-PURPOSE ROOMS, FOR INDOOR AND OUTDOOR SPORTS, FOR CORRIDORS, AND FOR NIGHTTIME PROTECTION OF PEOPLE AND PROPERTY. PHOTOGRAPHS, CHARTS, AND DIAGRAMS ACCOMPANY THE TEXT. (RK)

ERIC/CEF DOCUMENT NO. EF000515 ED 015 623 DISPOSITION-EDC- 1

IMPLICATIONS OF NEW MEDIA FOR SPACE AND BUILDING DESIGN

BY- CHRISTIANSEN, KENNETH A.
NATIONAL COUNCIL ON SCHOOLHOUSE CONSTRUCTION

PUBLISHED-OCT61
IN- PROCEEDINGS OF THE N.C.S.C. THIRTY-EIGHTH ANNUAL MEETING, ATLANTA, GEORGIA, OCT., 1961

C08 PAGES

DESCRIPTORS- *AUDIOVISUAL AIDS, *CONTROLLED ENVIRONMENT, *DESIGN NEEDS, *INSTRUCTIONAL TELEVISION, *SCHOOL PLANNING, ACOUSTICAL ENVIRONMENT, EQUIPMENT UTILIZATION, FLEXIBLE FACILITIES, ILLUMINATION, SPACE UTILIZATION, VENTILATION

THE EXPANDING ROLE OF EDUCATIONAL TELEVISION AND OTHER INSTRUCTIONAL AIDS AND MEDIA IN THE LEARNING MEDIA IS DISCUSSED IN TERMS OF APPROPRIATE SPACE DESIGN AND SPACE UTILIZATION. THREE AREAS ARE IDENTIFIED IN THE NEW MEDIA--(1) PROJECTION DEVICES, (2) NONPROJECTION DEVICES, AND (3) TELEVISION. ARCHITECTURE AND DESIGN CONCERNS ARE DEFINED AS--(1) STUDENT RELATIONSHIPS TO THE AIDS AND MEDIA, AND (2) PRODUCTION, DISTRIBUTION, ORIGINATION, RECORDING (AUDIO OR VIDEOTAPE), AND STORING FUNCTIONS AS THEY APPLY TO THE SEVERAL MEDIA. TOPICS MENTIONED INCLUDE, SPECIFIC USES FOR THE NEW MEDIA, AND THE USE OF FUNCTIONAL VALUE OF SPACE, LIGHT, ACOUSTICS, AND CLIMATE. SPECIAL CONSIDERATIONS ARE GIVEN IN CONNECTION WITH TELEVISION--(1) PRODUCTION AND RECEIVING AREAS, (2) CLOSED OR OPEN CIRCUITS, (3) SPACE FOR PERSONNEL, EQUIPMENT, AND CONTROLS. ITEMS MENTIONED ARE INTENDED AS A CHECK LIST TO GUIDE PLANNING AND DESIGNING SPACE FOR FUNCTION AND USE ON NEW MEDIA. (MM)

ERIC/CEF DCCUMENT NO. EF000534 ED 014 865 DISPOSITION-EDC- 1

A SCHOCL FOR ALL SEASONS

STANFORD UNIVERSITY , CALIF. SCHOOL PLANNING LABORATORY

CO8 PAGES

DESCRIPTORS- *CONTROLLED ENVIRONMENT, *EDUCATIONAL CHANGE, *FLEXIBLE FACILITIES , *SPACE UTILIZATION, *WINDOWLESS SPACE, CURRICULUM DEVELOPMENT, ECONOMICS, EQUIPMENT, FLEXIBLE SCHEDULING, INTERIOR SPACE, LIGHTING, MOVABLE PARTITIONS, THERMAL ENVIRONMENT, SCHOOL CONSTRUCTION

DESCRIBES A HIGH SCHOOL IN CALIFORNIA INCORPORATING FLEXIBILITY TO ACCOMMODATE ALMOST ANY FORESEEABLE EDUCATIONAL CHANGE. STUDENTS MOVE IN THE MIDST OF A COMPACT ENVIRONMENT IN WHICH ALMOST EVERY SQUARE FOOT OF SPACE IS USABLE ACADEMIC SPACE. EACH DEPARTMENT SUBCOURT COMPLEX IS SITUATED SO AS TO BRING ALL STUDENTS INTO SOME CONTACT WITH ALL THE ACADEMIC DISCIPLINES SOMETIME DURING THE COURSE OF EACH DAY. THE NEARLY 2.5 MILLION CU. FT. INTERIOR IS CLOSED OFF FROM THE OUTSIDE BY SOLID WALL. SKYLIGHTS, A PROFUSION OF PLANTINGS, AND CO-ORDINATED COLORS WITH COLOR ACCENTS ATTEMPT TO PROVIDE A BUILT-IN OUTDOOR ENVIRONMENT. THE STRUCTURAL FRAME IS OF REINFORCED PRESTRESSED CONCRETE. A 5-FOOT GRID IS THE BASIC MODULE USED THROUGHOUT THE BUILDING. ALL INTERICR WALLS ARE NON-LOAD BEARING AND MADE UP OF DEMOUNTABLE COUBLE STEEL PANELS. THE WALLS ARE INSTALLED UNDER A SUSPENDED CEILING PLENUM WHICH HOUSES THE UTILITIES AND ELECTRICAL WIRING. ACCORDION AND FOLDING WALLS ADD INSTANT FLEXIBILITY TO THE ARRANGEMENT POTENTIAL OFFERED BY THE DEMOUNTABLE STEEL PANELS. TEMPERATURE CONTROL IS ACHIEVED WITHOUT A CENTRAL HEATING SYSTEM. A FEW ELECTRICAL HEATING PANELS ARE SPOTTED IN CRITICAL AREAS. THE PRINCIPAL SOURCE OF HEAT DERIVES FROM THE BODY TEMPERATURE OF THE BUILDING INHABITANTS AND THE LIGHTING. CARPETING IS AN ESSENTIAL FEATURE OF THE OPEN PLAN CONCEPT. THE POTENTIAL OFFERED BY THIS FACILITY FOR FLEXIBLE SCHEDULING AND CURRICULUM EXPERIMENTATION IS ALMOST LIMITLESS. INCLUDES BUILDING AND CARPETING COSTS, PHOTOGRAPHS, AND FLOOR PLAN. (RK)

ERIC/CEF DOCUMENT NO. EF000550 ED 017 123 DISPOSITION-EDC- 1

STATE OF NEW YORK STANDARD SCHOOL PLAN TYPE D-3, TWO-STORY JUNIOR - SENIOR HIGH SCHOOL, 1000 EXPANDABLE TO 1200 PUPILS

URBAHN AND BRAYTON, ASSOCIATE ARCHITECTS

IN- REPORT- N.Y.S. STANDARD SCHOOL TYPE D-3

C49 PAGES

DESCRIPTORS- *FLEXIBLE CLASSROOMS, *HIGH SCHOOL DESIGN, *SCHOOL LOCATION, CHOOL CONSTRUCTION, SCHOOL EXPANSION, SCHOOL SPACE

PROGRAM EMPHASIS FOR THE DESIGN OF THIS FACILITY WAS ORIENTED TOWARD CURRENT EDUCATIONAL CONCEPT. PRESENT AND PROJECTED CHANGES IN--(1) TEACHING TECHNIQUES, (2) CURRICULUMS, (3) STAFFING PATTERNS, AND (4) USE OF TECHNOLOGICAL AIDS SUGGESTED DEVELOPMENT OF A FLEXIBLE CLASSROOM UNIT. THE RESULTANT PLAN ACHIEVES FUNCTIONAL SEPARATION THROUGH GROUPING INTO 2 MAJOR BLOCKS--(1) THE ACADEMIC, AND (2) GYMNASIUM-AUDITORIUM UNITS. SEPARATION OF JUNIOR AND SENIOR HIGH STUDENTS IS NON-EXISTENT EXCEPT FOR INDIVIDUAL ENTRANCES AND LOCKER LOCATIONS. INCLUDED AS IMPORTANT PROJECT CONSIDERATIONS ARE--(1) EXPANSION PROVISIONS, (2) CONSTRUCTION METHODS AND MATERIALS, (3) STRUCTURAL SYSTEMS, (4) MECHANICAL SYSTEMS, (5) SITE ADAPTION DATA, AND (6) SUGGESTIONS FOR ALTERNATE CONSTRUCTION BIDS. FLOOR PLANS, PERSPECTIVES, AND CLASSROOM DIAGRAMS ARE INCLUDED. (MH)

ERIC/CEF DOCUMENT NO. EF000678 DISPOSITION-CERS 2

SOME DEMOGRAPHIC FACTORS IN SCHOOLHOUSE CONSTRUCTION

BY- BEGGS, WALTER K.
NATIONAL COUNCIL ON SCHOOLHOUSE CONSTRUCTION, EAST LANSING, MICHIGAN

PUBLISHED-OCT65
IN- PROCEEDINGS OF THE NCSC 42ND ANNUAL MEETING LINCOLN, NEBRASKA OCTOBER 4-7, 1965

007 PAGES

DESCRIPTORS- *BUILDING DESIGN, *CURRICULUM, *DEMOGRAPHY RESEARCH, *FLEXIBLE FACILITIES, *STUDENT MOBILITY

THE WRITER SPECULATED ABOUT FUTURE TRENDS AND NEEDS IN SCHOOLHOUSE CONSTRUCTION AS AFFECTED BY OBSOLESCENCE OF PRESENT PLANTS AND A GROWING SCHOOL PUPILATION. FUTURE SCHOOLHOUSE CONSTRUCTION WILL BE COMPOUNDED BY MOBILITY OF OUR NATION'S POPULATION WHICH EXPERTS PREDICT WILL CAUSE THE DEVELOPMENT OF STRIP CITIES IN VARIOUS GEOGRAPHIC SECTIONS WHERE AS MUCH AS 90 PERCENT OF FUTURE SCHOOL POPULATIONS MAY RESIDE. THE AUTHOR ALSO PREDICTS A SHIFTING PATTERN OF EDUCATIONAL NEEDS WHICH WILL AFFECT FUTURE SCHOOLHOUSE DESIGN. CYBERNETICS IN INDUSTRY MAY CAUSE RE-EMPHASIS UPON THE NEED FOR LEISURE EDUCATION, OR COMPREHENSIVE CURRICULUMS MAY HAVE TO PROVIDE MORE DIVERSE, SPECIFIC LEARNING PROGRAMS. THE GROWING FUND OF KNOWLEDGE MAY HAVE TO BE CATALOGUED AND PROGRAMMED SO THAT IT CAN BE READILY RETRIEVED FROM COMPUTER LIBRARIES, AND INTRODUCED TO SMALL GROUPS OF PUPILS PERHAPS THROUGH TELEVISION MEDIA. SUCH TEACHING PROCEDURES MAY REQUIRE SCHOOLHOUSE DESIGN TO INCLUDE INDIGENOUS MODULES WHICH CAN BE DEMOUNTED AND RELOCATED READILY FOR VARYING INSTRUCTIONAL PURPOSES.

ERIC/CEF DOCUMENT NO. EF000903 DISPOSITION-UFRC 1

DIVISIBLE AUDITORIUMS

EDUCATIONAL FACILITIES LABORATORIES, NEW YORK, N. Y.

PUBLISHED-MAY66

52 PAGES

DESCRIPTORS- *ACOUSTICS, *AUDITORIUMS, *BUILDING DESIGN, *EDUCATIONAL FACILITIES, *FLEXIBLE FACILITIES, *MOVABLE PARTITIONS, *THEATERS, DESIGN NEEDS, COLLEGE BUILDINGS, CONSTRUCTION NEEDS, SCHOOL BUILDINGS

BUILDING DESIGNS WHICH HAVE BEEN SIGNIFICANT IN THE DEVELOPMENT OF THE DIVISIBLE AUDITORIUM AND THEATER AND THE FUNDAMENTAL CONCEPTS OF THE MULTI-PURPOSE FACILITY WERE REVIEWED. WHILE NOT A COMPREHENSIVE COLLECTION OF DIVISIBLE FACILITIES, THE INSTALLATIONS REPORTED ON ARE THOSE THAT APPEAR TO BE LANDMARKS IN THE EVOLUTION OF THE MULTI-USE CONCEPT, AND NOT NECESSARILY THOSE THAT REPRESENT THE HIGHEST DEVELOPMENT OF A PARTICULAR APPROACH TO DIVISIBILITY. THE INSTALLATIONS REVIEWED RANGE FROM TEACHING AUDITORIUMS IN HIGH SCHOOLS TO MULTI-ARTS THEATERS AT A UNIVERSITY. IN ADDITION, A SECTION IS INCLUDED ON THE ACOUSTICS OF THE OPERABLE OR MOVABLE PARTITION WHICH IS OFTEN UTILIZED IN DIVISIBLE FACILITIES. COPIES OF THIS REPORT ARE AVAILABLE FROM EDUCATIONAL FACILITIES LABORATORIES, INC., 477 MADISON AVENUE, NEW YORK, N.Y. (BH)

ERIC/CEF DOCUMENT NO. EF001057 DISPOSITION-EDC- 1

HOW TO KEEP SCHOOL NOISE AT THE RIGHT LEVEL

BY- MC KAY, RONALD L.

PUBLISHED-OCT64
IN- THE NATIONS SCHOOLS, VOL. 74, NO. 4, OCTOBER, 1964

5 PAGES

DESCRIPTORS- *ACOUSTICS, *ACOUSTICAL ENVIRONMENT, *BUILDING MATERIALS, *PHYSICAL DESIGN NEEDS, *SCHOOL PLANNING, AUDIO EQUIPMENT, AUDITORIUMS, CLASSROOMS, FLEXIBLE FACILITIES, STRUCTURAL BUILDING SYSTEMS, THEATERS

DISCUSSES FACTORS TO BE CONSIDERED DURING SCHOOL PLANNING STAGES REGARDING NOISE LEVELS AND ACOUSTIC DESIGN IMPLICATIONS. FACTORS ARE--(1) A STAGE HOUSE IS DETRIMENTAL TO ORCHESTRAS, BANDS, CHORUSES, LECTURES, ASSEMBLIES, RECITALS, AND CERTAIN DRAMAS AND SPEECH-MUSIC PERFORMANCES. SUGGESTED IS AN AUDITORIUM WITH AUDIENCE AND PERFORMING PLATFORM WITHIN THE SAME SPACE AND UNDER THE SAME CONTINUOUS CEILING--AN OPEN STAGE, (2) STEEPLY SLOPED FLOORS IN AUDITORIUMS OR LECTURE HALLS PERMIT BETTER VIEWS AND HEARING--SHALLOW RAMP FORMS SHOULD BE AVOIDED, (3) GOOD REHERSAL ROOMS FOR LARGE MUSICAL GROUPS MUST BE 15 FEET HIGH MINIMUM, AND PREFERABLE 20 FEET TO 25 FEET HIGH--THERE IS NO SUBSTITUTE FOR HEIGHT. SPEECH CLASSROOMS SHOULD BE ABOUT 30 FEET SQUARE BY 10 FEET HIGH. FLEXIBLE SPACE MUST BE CONSIDERED IN TERMS OF PROPORTIONS AND ACOUSTIC QUALITY, (4) CARPETING IN THE CLASSROOM OFTEN MAKES USE OF OTHER ACOUSTIC TREATMENT UNNECESSARY WHILE CUTTING DOWN ON FOOTFALL AND CHAIR SCRAPING NOISE. FULLY UPHOLSTERED CHAIRS IN AUDITORIUMS SHOULD ALSO BE CONSIDERED, (5) AUDITORIUMS OF 1000 SEATS OR MORE NEED A SOUND AMPLIFICATION SYSTEM PLANNED FROM THE ONSET WITH THE REST OF THE AUDITORIUM BEING ACCOMMODATED IN THE DESIGN AND INTEGRATED WITH THE ROOM'S ACOUSTICAL DESIGN, (6) ALL PARTS OF A CONSTRUCTION SYSTEM MUST BE WELL BALANCED FOR THE BEST ACOUSTIC ENVIRONMENT, (7) CONTROLLED AIR FLOW NOISE OR MASKING NOISE CAN BE USEFUL IN OFFICE, CLASSROOMS, AND SIMILAR SMALL SPACES, AND (8) ABSORPTIVE MATERIALS USED IN CLASSROOMS CAN BE MUCH THINNER THAN THOSE USED IN MUSIC ROOMS, AUDITORIUMS, AND SHOPS WHERE A MUCH THICKER ABSORPTIVE MATERIAL AND AIRSPACE IS REQUIRED. THIS ARTICLE APPEARED IN VOL. 74, NO. 4, OCTOBER, 1966, ISSUE OF THE NATION'S SCHOOLS. COPIES MAY BE OBTAINED BY WRITING TO THE EDITOR, THE NATION'S SCHOOLS, INC., MERCHANDISE MART PLAZA, CHICAGO, ILLINCIS. (RK)

ERIC/CEF DOCUMENT NO. EF001072 DISPOSITION-EDC- 1

WALLS WALLS WALLS WALLS THAT WORK

BY- LEGGETT, STANTON AND QUALLS, GEORGE

PUBLISHED-FEB63
IN- OVERVIEW, FEBRUARY, 1963

7 PAGES

DESCRIPTORS- *MOVABLE PARTITIONS, *MULTIPURPOSE CLASSROOMS, ARCHITECTURE, AUDITORIUMS, BUILDING DESIGN, BUILDING INNOVATION, EQUIPMENT DESIGN

BECAUSE OF CHANGING ENROLLMENTS AND TEACHING PRACTICES, MODERN SCHOOLS NEED THE FLEXIBILITY THAT CAN BE PROVIDED BY MOVABLE OR EASILY DEMOUNTABLE WALLS. USED AS TEACHING AIDS, SPACE DIVIDERS, SPACE CHANGERS, AND DISPLAY PANELS, THESE WALLS ARE USUALLY MOST EFFECTIVE WHEN USED IN LARGE SPACES SUCH AS AUDITORIUMS, GYMNASIUMS, LIBRARIES, OR CAFETERIAS. BUILDINGS DESIGNED WITH MOVABLE WALLS IN MIND SHOULD HAVE FLAT CEILINGS, STRAIGHT EXTERIOR WALLS, AND EVEN LIGHTING DESTRIBUTION. THIS ARTICLE APPEARED IN THE FEBRUARY, 1963, ISSUE OF EDUCATIONAL EXECUTIVE'S OVERVIEW. COPIES MAY BE OBTAINED BY WRITING TO THE EDITOR, EDUCATIONAL EXECUTIVE'S OVERVIEW, BUTTENHEIM PUBLISHING CORPORATION, 747 THIRD AVENUE, NEW YORK, N.Y. (JT)

ERIC/CEF DOCUMENT NO. EF001237 DISPOSITION-CERS 2

IDEAS FOR PLANNING YOUR INSTRUCTIONAL MATERIALS CENTER (ADMINISTRATION CONFERENCE AND INDEPENDENT STUDY LISTENING AND VIEWING MATERIALS PRODUCTION READING, RESEARCH AND BORROWING STORAGE AND MAINTENANCE)

MASSACHUSETTS SCHOOL BUILDING ASSISTANCE COMMISSION, BOSTON

PUBLISHED-JUN64

DESCRIPTORS- *INSTRUCTIONAL MATERIALS CENTERS, *LIBRARIES, *LIBRARY FACILITIES, *PLANNING, *STUDY FACILITIES, MULTIPURPOSE CLASSROOMS, SCHOOL PLANNING, SCHOOL LIBRARIES

ACCORDING TO THIS STATEMENT, SPACE ALLOCATIONS SHOULD BE MADE FOR ADMINISTRATION, CONFERENCE AND INDEPENDENT STUDY, LISTENING AND VIEWING, MATERIALS PRODUCTION, READING, RESEARCH, BORROWING, STORAGE AND MAINTENANCE IN AN INSTRUCTIONAL MATERIALS CENTER. THE INSTRUCTIONAL MATERIALS CENTER SHOULD BE FLEXIBLE FOR MULTIGROUP ACTIVITIES, EXPANSIBLE FOR FUTURE PHYSICAL GROWTH, AND CENTRAL TO THE INSTRUCTIONAL PROGRAM. AREA SPECIFICATIONS ARE GIVEN FOR THE MATERIALS RESEARCH SMALL GROUPS, CATALOGING AND PROCESSING MATERIALS, LISTENING AND SPEAKING AREAS, A DARK ROOM, A TELEVISION STUDIO, AND A DEVELOPMENTAL READING ROOM. MATERIALS AND EQUIPMENT LISTS AND A BIBLIOGRAPHY ARE INCLUDED.

ERIC/CEF DOCUMENT NO. EF001263 ED 015 637 DISPOSITION-UFRC 1

THE COLLEGE AND UNIVERSITY FINE ARTS CENTER

BY- HUTCHINSON, GEORGE A.
PERKINS AND WILL, ARCHITECTS, CHICAGO, ILLINOIS

PUBLISHED-DEC60

059 PAGES

DESCRIPTORS- *ART EDUCATION, *CASE STUDIES (FACILITIES), *EDUCATIONAL SPECIFICATIONS, *FINE ARTS CENTERS, *FLEXIBLE FACILITIES, ART ACTIVITIES, BUILDING DESIGN, EDUCATIONAL OBJECTIVES, FACILITY GUIDELINES, MULTIPURPOSE CLASSROOMS

VIEWS CONCERNING THE FINE ARTS CENTER CONCEPT WERE GENERATED FROM WORKSHOP DISCUSSIONS ON THE FUNDAMENTALS OF COMPOSITION, EDUCATIONAL SCOPE AND FORM, IMAGINATIVE TEACHING METHODS, AND THE DETAILS OF SHAPE, SIZE AND EQUIPMENT OF EXISTING CENTERS. THE EDUCATIONAL PHILOSOPHIES DIRECTING THE FINE ARTS CENTER, THE DISCIPLINES WHICH MAY BE INCLUDED IN SUCH A FACILITY AND THE TYPES OF FACILITIES WHICH ARE REQUIRED FOR ART, MUSIC AND DRAMA WERE REVIEWED. ALSO DISCUSSED WERE POSSIBLE COMBINATIONS OF THE ARTS INTO A MULTI-USE OR GENERAL PURPOSE FACILITY. FOUR PROPOSED CENTERS WERE INVESTIGATED IN TERMS OF SPACE REQUIREMENTS AND DEPARTMENT UTILIZATION, AND TWELVE CENTERS WERE ANALYZED TO DEMONSTRATE HOW EXISTING FACILITIES HAVE SATISFIED THE OBJECTIVES OF AN INTEGRATED, FINE ARTS COMPLEX. (BH)

ERIC/CEF DOCUMENT NO. EF001334 DISPOSITION-UFRC 1

EVOLUTION OF A LEARNING CENTER

BY- HUTCHINSON, GEORGE A.
PERKINS AND WILL PARTNERSHIP, WASHINGTON, D. C.

PUBLISHED-MAY67
IN- COLLEGE AND UNIVERSITY BUSINESS, VOL. 42, NO. 5, MAY 1967

4 PAGES

DESCRIPTORS- *CLASSROOM DESIGN, *EDUCATIONAL FACILITIES, *EDUCATIONAL INNOVATION, *FLEXIBLE CLASSROOMS, *LEARNING ACTIVITIES, BUILDING DESIGN, EDUCATIONAL OBJECTIVES, FLEXIBLE FACILITIES, INTERIOR SPACE

THE LEARNING CENTER CONSISTS OF PHYSICAL FACILITIES APPROPRIATE AND RESPONSIVE TO THE ENERGIZING CONCEPTS OF EDUCATION BASED ON HOW STUDENTS LEARN. INSTEAD OF STRUCTURING THE FACILITIES INTO SIMILAR SIZED CLASSROOM SPACES, THE CENTER PROGRAMS FACILITIES FOR LARGE GROUP SPACES ACCOMMODATING 150 OR MORE STUDENTS, SMALL GROUP COMMUNICATION AREAS OF ABOUT THIRTY STUDENTS AND INDIVIDUAL STUDY AREAS. ACCOMPANYING SKETCHES GRAPHICALLY PRESENT THE LEARNING CENTER CONCEPTS AND ARE SUGGESTIVE OF POSSIBLE ORGANIZATIONS OF SPACE. THE LEARNING CENTER FACILITIES HAVE THE FLEXIBILITY NEEDED TO PROVIDE THE STUDENT WITH A MAXIMUM OF LEARNING OPPORTUNITIES. THIS ARTICLE IS PUBLISHED IN COLLEGE AND UNIVERSITY BUSINESS, VOL. 42, NO. 5, MAY 1967. COPIES MAY BE OBTAINED BY WRITING TO THE EDITOR, COLLEGE AND UNIVERSITY BUSINESS, 1050 MERCHANDISE MART, CHICAGO, ILLINOIS 60654. (BH)

ERIC/CEF DOCUMENT NO. EF001437 DISPOSITION-EDC- 1

MAJOR CONSIDERATIONS IN SCHOOL MODERNIZATION - AGE, LOCATION, EDUCATIONAL ADEQUACY

BY- LHCTE, JOHN D.
RESEARCH COUNCIL OF THE GREAT CITIES PROGRAM FOR SCHOOL IMPROVEMENT, CHICAGO, ILLINOIS

PUBLISHED-OCT67
IN- NEW LIFE FOR OLD SCHOOLS NEWSLETTER, NO. 22

004 PAGES

DESCRIPTORS- *BUILDING IMPROVEMENT, *CONSTRUCTION COSTS, *EDUCATIONAL NEEDS, *PHYSICAL DESIGN NEEDS, *SCHOOL CONSTRUCTION, AGE, BUILDING OBSOLESCENCE, EDUCATIONAL FACILITIES, EDUCATIONAL SPECIFICATIONS, FLEXIBLE FACILITIES, SCHOOL LOCATION

A DESCRIPTION OF THE RELATIONSHIP BETWEEN SCHOOL MODERNIZATION AND BUILDING AGE, WITH PARTICULAR ATTENTION TO RENOVATION RATHER THAN NEW CONSTRUCTION TO MEET CHANGING EDUCATIONAL NEEDS, IS GIVEN. THE NEWSLETTER EMPHASIZES EDUCATIONAL ADEQUACY AS BEING MORE IMPORTANT THAN BUILDING AGE, AND DESCRIBES RENOVATION TECHNIQUES WHICH WILL FACILITATE THIS APPROACH. A MAJOR CONSIDERATION IS IN TEACHING NEEDS AND EDUCATIONAL METHODS AS CRITERIA IN ADDITION TO LIGHTING AND CLIMATE CONTROL WHICH SERVE PHYSIOLOGOCAL NEEDS. OTHER ITEMS INCLUDE DECISION MAKING PROCESSES, COSTS, FLEXIBILITY, AND TEACHER EDUCATION. CLARIFICATION OF THE TERM SCHOOL MODERNIZATION IS ALSO INCLUDED. (MM)

ERIC/CEF DOCUMENT NO. EF001631 ED 018 971 DISPOSITION-EDC- 1

WHAT ABOUT CARPET

BY- SMITH, MILLARD J.
SHAKER HIGH SCHOOL, LATHAM, NEW YORK

PUBLISHED-MAY64

004 PAGES

DESCRIPTORS- *ACOUSTICS, *CARPETING, *FACILITY CASE STUDIES, *FLEXIBLE FACILITIES, *MAINTENANCE, BEHAVIOR PATTERNS

A SPEECH BASED ON THE OBSERVATIONS OF MILLARD J SMITH, PRINCIPAL OF SHAKER HIGH SCHOOL, LATHAM, NEW YORK, REGARDING THE USE OF CARPETING CONCLUDES THE BEHAVIOR PATTERNS OF THE STUDENTS ARE ALTERED BY THE USE OF CARPETING. CARPETS PROVIDE THE OPPORTUNITY TO USE OTHER AREAS OF THE SCHOOL AS CLASSROOMS. HALLS, CORRIDORS, STAIRS, LOBBIES, AND FLOOR ARE ALL CLASSROOMS. IN ADDITION, CARPET PREVENTS NOISE. CARPETING PRODUCES THE ACCOUSTICAL ATMOSPHERE WHICH ALLOWS PARTITIONS TO BE MOVED AND ALTERED AT WILL. ACOUSTICAL CONTROL THROUGH CARPETING ALLOWS TEACHERS TO TEACH BETTER, KEEPS NOISE LEVELS DOWN, AND PROVIDES FLEXIBILITY OF UTILIZATION TO MEET THE NEEDS OF A MODERN SCHOOL PROGRAM. IT HAS BEEN FOUND THAT TEACHERS PREFER TO TEACH IN A CARPETED ENVIRONMENT. A PROBLEM IS WHEN CLEANING A SPOT THE CARPET IS CLEANER IN THAT AREA, HOWEVER, IN A FEW DAYS OF USE THE CARPET IS EVENED UP AGAIN. SPOT CLEANING IS DONE BY THE REGULAR CUSTODIAL STAFF. CARPET DOES COST LESS TO MAINTAIN AND THE SAVINGS CAN ADD UP TO THE COST OF REPLACING THE CARPET. VERY LITTLE TIME IS SPENT IN CLEANING CARPETS. ALSO THE EASE OF MAINTENANCE MEANS THAT CARPETED ROOMS CAN BE USED FOR AFTER-SCHOOL ACTIVITIES MORE THAN OTHER ROOMS BECAUSE THEY ARE ALWAYS READY. AN INVITIATION IS EXTENDED BY MR. MILLARD TO VISIT SHAKER HIGH SCHOOL AND VIEW THEIR CARPET EXPERIMENT. IT IS REQUESTED THAT A LETTER BE SENT SPECIFYING THE PLANNED ARRIVAL DATE. (RK)